

FOLIO

University Research Prizes Awarded

Norbert Morgenstern, Professor of Engineer, and Gerhard Krapf, Professor of Music, have been named recipients of the 1984 University of Alberta Research Prize. The award, sponsored jointly by the University and the AAS:UA, recognizes excellence in research and scholarship. Two prizes are awarded annually: one rewards outstanding work in the general areas of the humanities and social sciences; the other, the sciences and engineering.

The prizes will be presented 21 March at a special presentation ceremony beginning at 8 p.m. in SUB Theatre. Each recipient will receive a cheque for \$2,500 and each will present a public lecture. Professor Krapf has taken as his topic "Musica universalis, a personal credo." Dr. Morgenstern will speak on "Engineering, Research and the University." Profiles of the recipients follow.

Gerhard Krapf

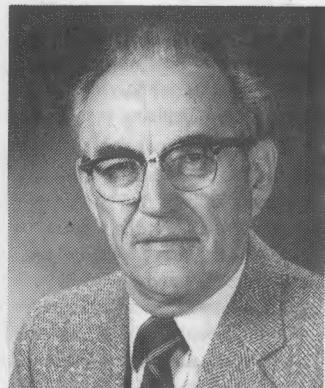
The first thing that strikes the eye is the grand piano. A "baby grand," it fills half the office. But it is Gerhard Krapf's hands that tell his story. As he talks, his hands are in constant motion, fingers moving as over an invisible keyboard. And not surprising, for Gerhard Krapf, recipient of a 1984 University Research Prize, has "made a living" using his hands.

An organist described by his colleagues as the "complete musician," Professor Krapf grew up in a house full of music. His father was a minister and church music was an integral part of his life's work. From his earliest days, the young Krapf played both piano and organ, his life revolving around bi-weekly organ lessons in a neighboring town, "two hours on the train each way." His teacher was a "fierce and dedicated man" who encouraged him (somewhat to his surprise and clearly to his delight) to study music at university. But the War intervened, and it was only after three years of service and three years in a prison camp

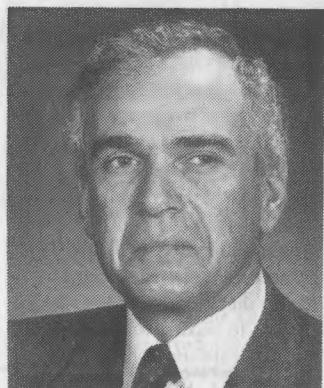
that Krapf's commitment to music could be pursued.

And pursue it he did. Years of study, a successful university entrance exam, an exchange fellowship in California, teaching at a school for delinquent boys. And all the while, he wrote music and played the organ. In 1961, just months before his 40th birthday, Professor Krapf went to the University of Iowa. There he set up an organ department. "It was wonderful," he recalls, hands in motion. "It was such a challenge, to start from nothing and put together a nationally recognized operation."

In 1977 the University of Alberta lured him from Iowa. Part of the challenge facing him was to oversee the installation of the University's new Memorial Organ. (Again the hands fly, accompanying his feelings: "It's such a wonderful organ!") But the on-going challenge facing Professor Krapf is his work as a composer, performer and scholar. His colleague and friend Bob Stangeland, Chairman of Music, describes him as a man "vitally involved in all aspects of serious



Gerhard Krapf



Norbert Morgenstern

musical endeavor. A man who creates as a composer, re-creates as a performer, and analyses and articulates as a scholar."

How does a research prize come to an organist? To Gerhard Krapf the answer is a simple one. "Research, in the creative arts, is the creative process itself." With such a benchmark it is readily apparent why the peer-recognition award honors the organist. His published compositions, numbering more than 100, range from slight single works and collections of the same to more extended compositions in multi-movement forms. And, while the organ is Professor Krapf's specialty, his composition is not limited to its keyboard. Solo voice, choral ensembles, choral and instrumental combinations and strictly instrumental ensembles are all part of his portfolio. It is a portfolio that enjoys wide circulation and frequent performance not only in church services but also in concert halls and educational institutions around the world.

Performance is also an integral part of the creative process.

Again Professor Krapf is prolific. He has presented live recitals (both sacred and secular) across the North American continent and in Europe, has performed as a broadcast artist over both Canadian and American radio networks, and has recorded both his own compositions, including his complete works for solo organ recorded at the invitation of the CBC for 15 half-hour tapes for broadcast, and the works of others.

Professor Krapf's reputation as a creative artist is completed by his scholarly achievements. His musicological publications have made a strong impact on the field of organ instruction and performance where they are considered as standard authoritative references. His book *Bach: Improvised Ornamentation and Keyboard Cadenzas; An Approach to Creative Performance* is considered an important piece of scholarly work and as such is currently being considered for translation.

Albert Schweitzer was an early influence in Krapf's life; Johann Sebastian Bach his life-

long model. "There is nothing about music that Bach cannot teach you," he declares, enthusiasm in his voice and hands. "He wrote oceans of wonderful music, sacred and secular. Knowing Bach allows you to appreciate music more fully."

The work of Gerhard Krapf, be it as composer, performer or scholar, has surely done the same.

Norbert Morgenstern

Just as obvious to the eye as Gérhard Krapf's baby grand are Norbert Morgenstern's books. Rows and rows of books crowd the walls of the small office that has been home to the acclaimed civil engineer for the past dozen years.

He laughs when questioned about his choice of profession. "I couldn't stand the sight of blood, so that eliminated medicine. My parents wanted me to be a lawyer, so that eliminated law. So I decided to become an engineer." It is 30 years since this "reactionary" career plan led Norbert Morgenstern to enroll in Civil Engineering at the University of Toronto. In that relatively short period of time Dr. Morgenstern has developed a reputation as one of the leading geotec-

hnical engineers in the world.

Soil mechanics, a relatively new field, caught Dr. Morgenstern's eye as a discipline which "offered a way out of the more traditional fields of civil engineering." After graduating from the University of Toronto in 1956 he went to England, "partly to do graduate work and partly to see the world." There he specialized in soil mechanics at Imperial College of Science and Technology and at the University of London. Those he worked with in England, first as a graduate student and subsequently as a fellow faculty member, remember his "keen intellect," "brilliant analysis," and "devoted and inspiring assistance."

Small wonder, then, that his reputation spread. In 1968 he accepted a position at the University of Alberta, shrugging off the skepticism of friends and colleagues who wondered "why on earth" he would chose Alberta. To Dr. Morgenstern, it was time for a change, and he sensed the potential awaiting him.

A keen curiosity and a high energy level combine to keep Dr. Morgenstern busy. His interest in geotechnical engineering covers a vast range of subjects and problems. He has travelled the world doing research and consulting. Dams, landslides, highways, bridges, pipelines—all have come under his scrutiny. He has made important contributions in fields ranging from the physics and mechanics of water and ice in soils to topics in geology and rock mechanics, and to the development of state-of-the-art techniques for design of engineering geotechnical structures. His expertise has had a profound effect not only on the academic community but also on professional practice at the local, national and international level.

Dr. Morgenstern's current interests include geotechnical applications to heavy oil extraction and arctic and offshore resource development. But he readily admits that he is constantly exploring new aspects of his field, a field he believes to be far broader than many people realize. "The contribution of geotec-

hnical engineering to many technological undertakings is so central that the limits of our profession expand continually."

Such is certainly the case at our University where he is credited with developing one of the finest geotechnical engineering thrusts in North America. "He has succeeded in establishing the University of Alberta as the focal point for geotechnical engineering," states Peter Adams, Dean of Engineering. "Few major projects are planned on this continent without the involvement of Dr. Morgenstern and, through him, members of the geotechnical group. It is an involvement that has been of significant importance to this country."

When met with such praise, Dr. Morgenstern is quick to point to his colleagues and students. "We have an excellent group of talented people at this University. Our success is very much a team effort."

His obvious respect for his colleagues gives the Research Prize special importance; an importance which he believes goes beyond peer recognition. "You might say that Gerhard Krapf and I represent opposite poles of what a university is all about," he submits. "The University does itself credit by recognizing that professional, market-oriented research and research in the creative arts hold equally important places in the scheme of things." □

Quota on First-Year Enrolment Announced

In his report to Senate on 17 February, President Horowitz announced the setting of a quota of 4,500 students for first-year enrolment beginning in September 1984. He described the decision as one of the most difficult he has had to make but one that was necessary in light of increasing enrolments and insufficient funding.

Dr. Horowitz reflected on the hiring freeze which was introduced in mid-November, saying that it was the most severe freeze ever implemented at the University. Fortunately, lay-offs on the non-academic side have been kept to a minimum and there are more vacant positions now than there were in November 1982, he commented.

The President reiterated that there has been no clear indication or formal letter from the Minister of Advanced Education as to what the University can expect in the way of the provincial grant.

In stating that the University is now the second largest in the country, Dr. Horowitz emphasized that long-range planning

must be taken more seriously and noted that four committees have been established to investigate specific areas of concern. He said the University was very grateful for the additional \$1.5 million granted by the government this year but added that it falls far short of what is needed.

Other Matters

Senators joined Bryce Bell, Director of the Student Finance Board, and Art Rossier, Mature Undergraduate and Graduate Society, in a discussion on maintenance grants for mature students. Mr. Bell explained that a Board review is looking at the guidelines now in place to support single parents who are pursuing post-secondary education. He said these students sometimes take less than a full five-course program and the length of time taken to complete a degree is longer than usual and so financial aid mounts. Mr. Bell went on to say that there are two reasons for reviewing the present policy: concern about the amount of debt load incurred by some

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students who may have unrealistic expectations about their ability to repay; and concern about keeping the costs of the student finance program under control.

There has been no decision made concerning changes in the current policy as Mr. Bell is still collecting data.

The impact of overcrowding on the quality of education was addressed by five faculty members: Dean McDonald, Science; Peter Freeman, Librarian; David Jackel, English; Bob Silverman, Sociology; and Lee White, Computing Science. Dr. Jackel told Senators that it is the students who suffer the most with the overcrowding and added that, although staff are conscientious, they are overworked and face a morale problem. Dr. Silverman described class sizes as "intolerable," saying that students do not have the contact or opportunity for discussion with professors. Mr. Freeman said the Library is finding it difficult to meet the requirements of students and that the competition

for books is intense.

Dean Wilson, Rehabilitation Medicine, opened the afternoon session with a review of his Faculty's curriculum and initiatives. Senate then examined the terms of reference for its Task Force on Ethics, keeping in mind the following objectives: to raise the level of awareness within the University about ethical considerations, as these relate to the teaching, research, community service and other activities of the University; to seek opinions, observations, and expectations as to the role of the University in the development of ethical standards in students; and to make appropriate recommendations.

The Task Force will seek to develop its knowledge of the subject of ethics, investigate the role which ethics play on campus, and gather opinion from the University community.

Janet Bentley outlined the recent activities of the Board of Governors and Allan Holender, Director, Fund Development, spoke to Senators about the objectives of his office. □



The Second Annual Conference on "Canada, The World and The Future" took place 20 to 24 February. The opening session, "Technological Change: What Can We Expect?" set the tone for the week by drawing considered viewpoints from (left to right) David Low, Deputy Secretary for Policy and Strategy, Ministry of State for Science and Technology; George Gray, President, International Microelectronic Products, San Jose, California; and A.H. Marsh, Director, Bell Northern Research (West), Edmonton. Terry Caelli, Killam Professor of Psychology at this University, served as chairman of the session. Attendance throughout the conference, which was sponsored by the Office of the Vice-President (Research), was up considerably over last year.

Gustav Hermansen, 1909 - 1984

On 13 February 1984, Gus Hermansen, Professor Emeritus of Classics, died of a stroke on his farm at Westerose, Alberta.

Dr. Hermansen was born and educated in Denmark. In 1933 he received a MA in Classics from the University of Copenhagen. In the same year he began work on the *Diplomatarium Danicum*, a series of Latin documents relevant to Danish history of the 13th and 14th centuries. He co-edited the text of four volumes and was involved in the production of many more. He also contributed, in whole or in part, to the Danish translation of several volumes in the series. At about the same time he was active in founding the periodical *Classica et Mediaevalia*. In 1939 he received a doctorate from the University of Copenhagen. His dissertation, "Studies on the Italian and Roman Mars," was published in German in the following year. It was later reprinted and is now recognized as a pioneering work in the field.

In 1942 Dr. Hermansen obtained a position as Librarian at the State Library of Aarhus, and combined this with lecturing at the University of Aarhus. He was also active in the Danish Resistance. After the war he began a new career as columnist and editorial writer for the *Jutland Post*. In 1950 the paper sent him to Canada as a reporter. He stayed on, became a Canadian citizen, and combined journalism with farming and other activities. He maintained his keen interest in classical and medieval studies, however, and in 1965 he renewed his official connection with academic life by accepting an appointment as Collections Librarian at the University of Alberta Library. In this capacity he played a vital role in acquiring for the University the library of the Archbishop of Salzburg. In 1966 he accepted a joint appointment in Classics and History and in 1967 he became a



Gustav Hermansen

full-time member of the Classics Department. He rose quickly up the ranks and was promoted to full Professor in 1971. His interest in medieval studies resulted in his edition (with F.D. Blackley) of *Queen Isabella's Household Book* (University of Alberta Press, 1971). He also wrote numerous articles on Roman topics, particularly on Ostia. In 1967 he founded and directed a summer program in Italy which, over the years, was attended by students throughout Canada. The program was eventually housed at the British School in Rome, and in this location the Hermansens became unofficial hosts for visiting Canadian academics. Through example and exhortation Dr. Hermansen was a major force in promoting a permanent Canadian academic presence in Rome.

After his retirement in 1974 he accepted an invitation to teach for a year at the University of Victoria. Later he taught for a few months at the University of Rhodesia and in the autumn of 1983 he taught again for a term in the Classics Department at the University of Alberta. He was also much in demand as an invited lecturer both in North America and Europe. Meanwhile his research continued at an im-

pressive pace. His studies on Ostia culminated in *Ostia, Aspects of Roman City Life* (University of Alberta Press, 1981). This is a book of considerable originality and has been enthusiastically received by leading scholars in the area. More recently, he had returned to his old interest in Etruscan and Italian religion. At the time of his death he was polishing a major address scheduled to be delivered the following weekend at the annual meeting of the Classical Association of the Canadian West.

Dr. Hermansen is survived by his wife, Margaret, three sons, Michael, Jake and Andy, and four grandchildren. □

IDRC Vice-President to Pay a Visit

Joe Hulse, Vice-President of the International Development Research Centre (IDRC), Ottawa, will be on campus 6 March. A meeting has been arranged for 3 to 4 p.m. in 3-18J Agriculture-Forestry Centre for anyone who is interested in finding out more about IDRC's current priorities and the role of the universities in relation to IDRC.

If you plan on attending please call 432-5660 so that sufficient room can be ensured.

Dr. Hulse will also be delivering the Gordon Yaciuk Memorial Lecture that day at 8 p.m. at the Faculty Club. □

The Pleasure of Their Company

In conjunction with the 50th anniversary of the Faculty Women's Club, the Club's spring luncheon will be held 14 March at noon in the Faculty Club's Papaschase Room. Guest speaker Saretta Sparling will discourse on "Thumbnail Sketches." Members and guests are cordially invited to attend. Tickets (\$8.50) may be purchased from Interest Group Convenors or Laura Steadward, 436-7676. □

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John Vanderkamp: EFF Distinguished Visitor in Economics

John Vanderkamp, Professor and Dean, College of Social Sciences, University of Guelph, is EFF Distinguished Visitor in the Economics Department during the month of March. As a broad policy-oriented Canadian economist, Dr. Vanderkamp's special areas of interest are in labor market economics with particular emphasis on wage rate determination and the migration behavior of the Canadian labor force. He is also widely recognized as the founder and original editor of the important interdisciplinary journal, *Canadian Public Policy/Analyse de Politiques*.

Born in Holland, Dr. Van-

derkamp was educated in Amsterdam, Toronto, and the London School of Economics. Prior to joining the University of Guelph in 1971 as Professor and Chairman of the Department of Economics, he had taught for seven years at the University of British Columbia. He has been Dean of the College of Social Science at Guelph since 1981.

Dr. Vanderkamp has published widely in academic journals and in research monographs prepared for the Economic Council of Canada and other such bodies. He last visited our University in February 1982 as an external member of the PACC review team for the Department of Economics. In October 1979 he was here as a discussant at the Alberta Heritage Savings Trust Fund conference, for which he also co-edited the proceedings.

During his visit Dr. Vanderkamp will present open departmental seminars on four occasions: "Union/Non-Union Differentials on Annual Earnings" (7 March), "Migrant Information and the Migration Decision" (21 March),

"Migration and Fiscal Imbalances" (23 March), and "Inflation Expectations in Canada" (28 March). All seminars will take place in 8-22 H.M. Tory Building, commencing at 3 p.m. In addition, he will present a public lecture on "University Enrolment in Canada, 1951-81 and beyond" on 14 March at 3 p.m. in Lecture Theatre 4, Humanities Centre, and will lead an interdisciplinary discussion on "What is the good of a journal like *Canadian Public Policy*?" on 27 March at 3 p.m. in 8-22 H.M. Tory Building. Further presentations will occur in the context of particular economics classes. Additional information on his visit may be obtained by telephoning 432-3406 or 432-4417. □

Hong Kong: the 1997 Issue

In an effort to inform Hong Kong students and members of the wider University community about the issues central to the future of Hong Kong, a public forum will be held 10 March. Sponsored by the Hong Kong Graduate Students' Association, the meeting will begin at 1 p.m. in 2-115 Education North.

1997 is a key date in the future of Hong Kong. It is then that the existing lease of the New Territories by China to Great Britain expires. Negotiations are currently underway between China and Great Britain with a view to finding a solution to the Hong Kong question prior to the expiration of that lease.

Participants in the afternoon session include Brian Evans and Lawrence Lau, Department of History; B. Yeung, Faculty of Business; and M. Maduro, Alberta Federal and Inter-governmental Affairs. The forum is free and the public is welcome to attend. More information may be obtained by contacting Annie Tsui, Hong Kong GSA, telephone 432-5893. □

Have You Any Quirks or Quarks?

A producer from the nationally acclaimed CBC radio program "Quirks and Quarks" recently contacted the Office of Community Relations and asked for help in identifying a number of research projects that would lend themselves to the program. The producers of the show will be in Edmonton in the near future to tape a number of segments for the fall season. If you think your project would be of interest to them, please call Community Relations, 432-2325, or mail a brief outline of the project to 423 Athabasca Hall. □

Shevchenko Lecture Set

The 1984 Shevchenko Lecture at the University of Alberta will be delivered by Peter J. Potichnyj of the Department of Political Science, McMaster University. Professor Potichnyj's topic is "Jews and Ukrainians: The Legacy and the Hope."

The lecture will take place Tuesday, 13 March, at 8 p.m. in 2-115 Education North.

Professor Potichnyj was co-organizer of an academic conference on "Jewish-Ukrainian Relations in Historical Perspective" which was hosted by McMaster University in October 1983. Together with a colleague, Howard Aster, Professor Potichnyj has published *Jewish-Ukrainian Relations: Two Solitudes* (Oakville: Mosaic Press, 1983).

The Shevchenko Lecture is sponsored annually by the Ukrainian Canadian Professional and Business Club of Edmonton and organized by the Canadian Institute of Ukrainian Studies at the University of Alberta. □

Service information

All information to be included in this column must reach the Office of Community Relations by 9 a.m. the Thursday prior to publication.

Coming Events

Lectures and Seminars

Faculty of Pharmacy and Pharmaceutical Sciences

1 March, 4 p.m. M. Spino, Faculty of Pharmacy, University of Toronto, "Altered Disposition of Drugs in Cystic Fibrosis—Why?" 4069 Dentistry/Pharmacy Centre.

Committee for the Improvement of Teaching and Learning

2 March, 9 a.m. Christopher Knapper, Teaching Resource Person, University of Waterloo, "Evaluating University Teaching—The Need for New Initiatives." Council Chamber, University Hall.

2 March, noon. Christopher Knapper, "Technology and University Teaching—Promises and Pitfalls." 457 CAB.

Department of Art and Design

2 March, 2 p.m. Jack Damer, University of Wisconsin-Madison, will give a public lecture.

Important Dates in March

- 2 •Board of Governors
 - Until 3 March, CIAU Championships
- 5 •GFC Executive
 - Robert M. Hardy 75th Anniversary Lecture in Engineering
- 12 •GFC Executive
 - John A. Allan 75th Anniversary Lecture in Science
- 15 •Advance registration in the 1984-85 Winter Session begins for continuing students in undergraduate programs
- 19 •GFC
- 21 •Research Prize Lectures 1984
- 23 •Last day for withdrawing from Second Term courses, or for changing from "credit" to "audit", in Second Term courses.
- 30 •Last day for receiving registration for Spring Session 1984!

ture on his work. 2-20 Fine Arts Building.

Department of Statistics

2 March, 2 p.m. M. Hlywka and J.N. Sheahan, "Optimal Control in Double Queues." 657 CAB.

Department of Zoology

2 March, 3 p.m. Tom Wegmann, "Immunobiology of the Maternal-Fetal Relationship." CW-410 Biological Sciences Building.

Departments of Plant Science and Genetics

2 March, 3:30 p.m. K. Kasha, Crop Science Department, University of Guelph, "Development in Haploidy in Barley." M-149 Biological Sciences Building.

5 March, 1 p.m. Jendeka Mahasi, "Genetics Studies in Rapeseed." 1-06 Agriculture-Forestry Centre.

7 March, 1 p.m. Kan Fa Chang, "Verticillium Wilt of Alfalfa." 1-06 Agriculture-Forestry Centre.

12 March, 1 p.m. Ken Conn, "Hypersensitivity—Suicide Kamikaze Style." 1-06 Agriculture-Forestry Centre.

14 March, 1 p.m. Ana Smrecoiu, "Aspects of Winter Hardiness in Woody Plants." 1-06 Agriculture-Forestry Centre.

Student Volunteer Campus Community for Refugees

2 March, 4 p.m. As part of the 5th anniversary celebration, a series of selected topics for Chinese-speaking students will be presented in 2-115 Education North. For the list of lectures, call Father Firth at 433-1569 or 439-2311.

Center for Advanced Study in Theoretical Psychology

5 March, 2 p.m. F. Dretske, University of Wisconsin-Madison, "Minds, Machines and Meaning." P-319N Biological Sciences Building.

9 March, 3 p.m. H. Henttonen, Institute for Arctic Biology, University of Alaska, "Microtine Cycles and Interspecific Competition Among Microtines in Northern Fennoscandia." CW-410 Biological Sciences Building.

Faculty of Medicine

5 March, 4 p.m. David Cotton, Respiratory Diseases Clinic, University of Saskatchewan, "The Effect of Position and/or High Negative Inspiratory Pressure on the Single Breath Diffusing Capacity." 6-101 Clinical Sciences Building.

9 March, 4 p.m. Just Elbrink, "Glucose Metabolism in Dystrophic Hamsters." 9-68 Medical Sciences Building.

Gordon Yaciuk Memorial Lecture

6 March, 8 p.m. Joseph H. Hulse, Vice-President, Research Program, International Development Research Centre, Ottawa, "World Food Systems—Problems and Potentials." Papaschase Room, Faculty Club

Department of Sociology

7 March, noon. A. Matejko, "The Participatory Team (Planungszelle of P.C. Dienel)." 5-15 Tory Building.

14 March, noon. M. Gillespie, "The Importance of Death for Modern Sociological

Theory." 5-15 Tory Building.

Department of Music

7 March, 2 p.m. Rita Steblin, "Death as a Fiddler in the Nineteenth Century: An Interdisciplinary Study." 2-32 Fine Arts Building.

Department of Economics

7 March, 3 p.m. John Vanderkamp, University of Guelph, "Union/Non-union Differentials in Annual Earnings." 8-22 Tory Building.

14 March, 3 p.m. Dr. Vanderkamp, "University Enrollment in Canada 1951-81." L-4 Humanities Centre.

Women's Program—Extension

7 March, 7:30 p.m. Joan Mercer, "Women's Disarmament Campaign, "Women and Peace: A Global Perspective." 332 Corbett Hall.

Universe and Man Lecture Series

7 March, noon. G. Moss, "The Strange Universe of Elementary Particles: a rapid journey from earth, fire, water and air to quarks, leptons and intermediate vector bosons." 239 Central Academic Building.

Limnology and Fisheries Discussion Group

8 March, noon. Ellie Prepas, "The Narrow Lake Project: Part II—Production of Fish Food." G-217 Biological Sciences Building.

Departments of East Asian Languages and Literatures, History, Anthropology, and the East Asian Studies Committee

8 March, 3:30 p.m. Jan Walls, Director, Institute of Pacific and Oriental Affairs, University of Victoria, "Black Cats, White Cats. Culture in China Today." L-2 Humanities Centre.

Club IDC

9 March, 3 p.m. Seminar on development, "Multinationals." Will include the film "Controlling Interest." 2-115 Education North.

Lutheran Campus Ministry

9 March, 6:30 p.m. Rev. Paul Wee, General Secretary of Lutheran World Ministries, "The Fate and Faith of Iron Curtain Students." Reservations are required—432-4513. Lister Hall Banquet Room.

10 March, 1:30 p.m. Dr. Wee, "To Love and Trust Our Enemies: The Eastern European and Soviet Peace Movements." Phone 432-4513 for location.

11 March, 7:30 p.m. Paul Wee and Ian Ferguson, Canada's Department of External Affairs, "Namibia: The Gathering Crisis." Phone 432-4513 for location.

Department of Chemistry

12 March, 4 p.m. J.C. Polanyi, "Science, Technology and Society. How Discoveries Are Made—And Why It Matters." B-1 Tory Lecture Theatre.

13 March, noon. J.C. Polanyi, "Can We Avoid an Arms Race in Space?" SUB Theatre.

13 March, 4 p.m. J.C. Polanyi, "Toward a

Spectroscopy of Transition States." E1-60 Chemistry Building.

Faculty of Education

13 March, 3:30 p.m. Erwin Miklos, McCall Research Professor, 1982-83, "Critical Issues in the Study of Education: The Case of Educational Administration." 129 Education South.

Canadian Institute of Ukrainian Studies

13 March, 8 p.m. Peter J. Potichnyj, "Jews and Ukrainians: The Legacy and the Hope." 2-115 Education North.

Department of Botany

14 March, 4 p.m. Steve Downie, "The Systematics of *Arnica Louiseana* Farr." M-137 Biological Sciences Building.

Department of Religious Studies

14 March, 4 p.m. Mohammed Shoush, "Ancestor Worship in Pre-Islamic Arabia." L-2 Humanities Centre.

Music

Department of Music

All events take place in Convocation Hall, unless otherwise specified.

4 March, 3 p.m. A duo piano faculty recital with Alexandra Munn and Ernesto Lejano.

4 March, 8 p.m. A faculty recital with Fordyce Pier, trumpet; Kerry Rittich, flute; and Eileen Keown, piano.

9 March, 8 p.m. Grant Maxwell, piano. MMus candidate, Applied Music (Keyboard).

12 March, noon. Debra Parker, soprano, and James Manson, piano—1983 Eckhardt-Gramatté Winner. 1-29 Fine Arts Building.

12 March, 2 p.m. French Horn Masterclass featuring Barry Tuckwell. A Cooperative Visiting Artist Series with Alberta College.

14 March, 8 p.m. A senior student recital with Gisele Rouleau, piano.

Richard Eaton Singers

9 March, 8 p.m. A performance of Handel's "Coronation Anthems" and M. Durufle's "Requiem." With organ and orchestra. Conductor, Leonard Ratzlaff. All Saints' Anglican Cathedral.

Edmonton Youth Orchestra

11 March, 3 p.m. First Orchestra-Concerto Concert featuring soloists Joseph Lai and Janet Dea. Tickets: \$4 regular, \$2 seniors/students.

Exhibitions

Ring House Gallery

Until 11 March. "A University Collects: Recent Acquisitions."

23 February to 20 March. "Two Newfoundland Artists: Don Wright and Heidi Oberheide."

Department of Art and Design

5 to 23 March. "Prints from Poland." 2-40E Fine Arts Building (Printmaking Resource Room). For access and information, contact Robin Peck, 432-3011.

Films

Chaplains' Association

Out of the Whirlwind: A Holocaust Film Series. An exploration of the Holocaust through documented history, court evidence, film and survivors. A film and discussion series.

6 March, 8 p.m. "War Crimes, Universal Law, and the Principles of Nuremberg." "Guilty Men"—National Film Board, 1945.

Department of Anthropology

7 March, 7 p.m. "People of the Seal." Films on the life of the Netsilik Eskimo. Admission free, everyone welcome. Milton Freeman will introduce the films and lead the discussion of them.

Radio and Television

Radio

Programs broadcast on CKUA radio 580 AM and 94.9 FM.

3 March, 7 p.m. University Concert Hall—The Wind Ensemble. Guest: Fordyce Pier.

7 March, 7 p.m. Celebrations—Readings with Catriona Edwards.

10 March, 7 p.m. University Concert Hall—Music for Lent. Guest: Gerhard Krapf.

Television

Programs broadcast on ETV Q-9 and C-13.

7 March, 8 p.m. Images of Alberta. with host Kanhaya Gupta. Guest: Bob Clarke.

Sports

Gymnastics

2 and 3 March. Golden Bears and Pandas compete in the CIAU Championships. Pavilion.

Matters of Faith

Chaplains' Association

Mondays, 7:30 p.m. Evening Prayer in preparation for the Pilgrimage of Reconciliation and Hope by the Taizé Community. St. Joseph's College Chapel.

Catholic Campus Ministry

St. Joseph's College
Sunday Mass: Saturday, 4:30 p.m., Sunday, 9:30 and 11 a.m. and 4 and 8 p.m.
Weekday Mass: Monday, Wednesday, Friday, and Saturday at 12:10 and 4:30 p.m. and Tuesday and Thursday at 12:30 and 4:30 p.m. Also Monday to Friday at 7:30 a.m.

Lutheran Campus Ministry

Sundays, 10:30 a.m. Worship with Holy Communion in the Newman Centre of St. Joseph's College. The University community is welcome to attend.
7:30 p.m. Thursday evening worship at the Lutheran Student Centre, 11122-86 Avenue.

Wednesdays at noon. Bible Study, 158A Students' Union Building.

Anglican-United Campus Ministry

Tuesdays, noon. Bible study; Thursdays, noon. Eucharist. Bring bag lunch. 158 SUB.

Faculty of Extension

Real Estate Education

For further information on the courses listed below and others offered, telephone 432-5060.

Real Estate in Distress
Selling Your Own Home
Occupancy Cost and the Tenant
Practical Apartment Caretaking
Apartment Rental Techniques

Non-Credit Courses

Computing Services

MTS (Michigan Terminal System)

MTS and Editor Fundamentals (Prerequisite)
AJ510 Operation and Visual Editing
MTS Overview (Prerequisite)

TEXTFORM

Introduction to Text Formatting (Prerequisite)
Advanced Text Formatting

SPIRES

Introduction to SPIRES (Prerequisite)
Advanced SPIRES

Graphics

Introduction to Plotting
Integrated Graphics Overview

Statistics

Data Preparation for Statistical Packages (Prerequisite)
Introduction to SPSSx
SPSSx Conversion
Introduction to BMDP
Introduction to MIDAS
Introduction to MINITAB
Introduction to TROLL

Microcomputers

Introduction to the IBM PC
The above courses are offered regularly through the day with limited evening selections. Registration will be taken over the phone for all courses except evening courses. These may be made in person at 352 General Services Building, or by mail. Payment must accompany registration for all evening courses. Please make cheques payable to the University of Alberta.

Waiting List Courses

The following courses are only offered when a sufficient number of people express an interest.
Courier Operation and Visual Editing
Introduction to Programming
Introduction to Typesetting
Introduction to APL
Introduction to the Array Processor
Introduction to APAL
Introduction to Clustan
Introduction to TSP
Introduction to Osiris
For more information on any of the courses listed above, telephone the Training Assistant at 432-2511, between 8:30 and noon, weekdays.

Land Use Planning Studies

For further information on the courses listed below, telephone 432-2912.

An Introduction to Small Towns
Corrosion Control in Steam Systems
Computer-Assisted Design: The Management Decision
Public Open Space: Designing for the Disabled
Draughting Room Management

Business and Professional

For further information on the courses listed below, telephone 432-5066 or 432-5067.
Wills and Estate Planning
Effective Interviewing Techniques
Profits Through Participation: The Quality Circle Approach
Management for New Managers
Effective Manpower Planning

Applied Behavioral Sciences Division

For further information on the courses listed below, telephone 432-5069.
Assertion and Interpersonal Skills
Training—Level I
Breathing for Health, Relaxation, and Vitality
Controlling Pain Through Naturalistic Hypnosis
Introduction to Transactional Analysis and Its Application to Life
Successful Restructuring for Singled Adults

In preparation for this second phase, PACC invites written comment prior to 15 April 1984. Submissions are for the use of the Unit Review Committee and will be held in confidence by the members of that committee.

Submissions should be sent to: Mrs. L. Pearson, PACC Office, W4-13 Chemistry Building, Attention: The Chemistry Unit Review Committee.

COSS Requests Briefs

The Council on Student Services Subcommittee on Student Housing Policy requests briefs on the Lister Hall Residence with specific recommendations toward the improvement of management, administration, general policy, quality of lifestyle, or discipline in the complex.

Submissions should be made to: The COSS Sub-committee on Student Housing Policy, 234 Athabasca Hall. The deadline for submissions is 15 March 1984.

Books Unlimited

The Writers Guild of Alberta will hold a garage sale 3 March from 10 a.m. to 4 p.m. at Central United Church, 11112-109 Avenue.

Several prominent authors, including Rudy Wiebe and Monica Hughes, will be on hand to autograph copies of their books. Cast-offs and carry-away from Edmonton authors at reasonable prices. Proceeds will help fund the Guild's programs and activities.

For more information, or to offer items for sale, telephone the Guild (426-5892) or the Church office (426-1596).

Scholarships, Fellowships and Awards

Noranda Fellowships for Post-Graduate Studies in Science and Engineering

Donor: The Noranda Group of Companies.
Where tenable: Canada. **Level:** Post-graduate. **Field:** Research related to mining and metallurgy in the following fields: mining, mineral engineering, extractive metallurgy, chemical engineering, electrochemistry, ecology, chemistry, physical metallurgy, materials science, and forestry. **Value:** \$11,500 per annum, including \$11,000 for the recipient plus \$500 for equipment and other expenses. **Number:** Unspecified. **Duration:** Awarded on an annual basis, but may be renewable for a total period of three years. **Conditions:** Applications are invited from graduate students holding a bachelor's degree in science or engineering who are interested in pursuing post-graduate studies in the above fields at a Canadian university. In awarding Noranda Fellowships, preference will be given to Canadian citizens. **Closing date:** 1 April 1984. **Further information and application forms should be requested from:** Students Awards Office or Director of Research and Development, Centre de Recherche Noranda, 240 Hymus Boulevard, Pointe Claire, Quebec, H9R 1G5.

Notices

Campus Reviews

As part of the process of carrying out systematic reviews under the guidance of the President's Advisory Committee on Campus Reviews (PACC), the Department of Chemistry is completing the self-study phase of the review process. The other major phase of the process is the site visit and assessment by the Unit Review Committee

Petro-Canada Inc. Graduate Research Program

Donor: Petro-Canada Inc. **Where tenable:** Any university or college which is a member or affiliate to a member of the Association of Universities and Colleges of Canada. **Level:** Master's or doctoral degree on a subject related to the oil and gas industry. **Field:** Science, engineering, social sciences, business administration. **Value:** \$10,000. **Number:** Five. **Duration:** Awards are for one year, however application for renewal will be considered upon presentation of evidence of satisfactory progress and proof of registration for the next academic year. **Conditions:** Must be Canadian citizens or landed immigrants; awards are granted primarily on the basis of academic standing and demonstrated potential for advanced study and research. **Closing date:** 1 April 1984. **Further information and application forms should be requested from:** Supervisor, Candidate Assessment, International Relations and Scholarship, Administration Division, Association of Universities and Colleges of Canada, 151 Slater Street, Ottawa, Ontario, K1P 5N1.

Positions Vacant

The University of Alberta is an equal opportunity employer but, in accordance with Canadian Immigration requirements, these ad-

vertisements are directed to Canadian citizens and permanent residents.

Non-Academic Positions

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. As positions are filled on an on-going basis, these vacancies cannot be guaranteed beyond 23 February 1984. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.

Clerk Steno II (\$1,161-\$1,390) Economics
Clerk Steno III (Trust) (\$1,294-\$1,561)
Centre for Frontier Engineering Research
*Programmable Typewriter Operator (\$1,442-\$1,766) Materials Management
Administrative Clerk (\$1,442-\$1,766) Pension and Benefits Administration
*Library Assistant II (\$1,497-\$1,842)
Boreal Institute for Northern Studies
*Departmental/Executive Secretary (\$1,625-\$2,003) Dean of Dentistry
*Departmental/Executive Secretary (\$1,625-\$2,003) Graduate Studies and Research
Lab Assistant III (Trust, Part-Time) (\$647-\$781) Medicine
Technician I/Technologist I (Trust) (\$1,497-\$2,092) Immunology
*Vehicle Operator (\$1,497-\$1,842) Dispatch Distribution

Technician I (Trust) (\$1,497-\$1,842) Medicine
*Stockkeeper (\$1,625-\$2,003) Central Stores

Biology Technologist I (Trust) (\$1,697-\$2,092) Zoology
Technician II/III (Trust) (\$1,697-\$2,378) Pediatrics
Technician II/Technologist II (Trust) (\$1,697-\$2,378) Immunology
Technician II/Technologist II (Trust) (\$1,920-\$2,378) Biochemistry
Biology Technologist II (Trust) (\$1,920-\$2,378) Genetics

*In accordance with current Hiring Freeze policy, applications for these positions are restricted to present non-academic staff for a period of 10 working days.

of placing advertisements is 30 cents per word with no discount for subsequent insertions. There are no refunds. There is a maximum limit of 30 words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone.

Accommodations available

Private sale - Priced accordingly - Grandview. Superb family home. Large split, four bedrooms up. Den, rumpus room, screened patio, attached garage. Beautifully treed. Outstanding elementary-junior high. Date negotiable. \$179,900. 434-5064.

Sale - Grandview, University Four-bedroom, 1,900 sq. ft. \$154,700. 437-7299.

Sale - Two stories, remodelled, five bedrooms, two bathrooms, den, sundeck, patio, double heated garage. Garneau. 439-3702.

Sale - Two-bedroom, unique condominium. Close to University, excellent, assumable mortgage. Sharon, 435-8344, 436-3050. Langley.

Advertisements

Advertisements must reach the Editor by 3 p.m. on the Thursday prior to publication date which date also serves as the deadline for cancellation of advertisements. The cost

The University of Alberta
and the Alberta Research Council
invite you to attend

"Science, Technology and Society"

A Lectureship Series sponsored by the Alberta Research Council in commemoration of the 75th Anniversary of the University of Alberta (1908-1983)

Robert M. Hardy 75th Anniversary Lectureship in Engineering
James Ham, Past President, the University of Toronto,
"Technology, Work and Engineering"

Wednesday, March 7, 4 p.m.
Lecture Theatre B-1 Henry Marshall Tory Building
University of Alberta

John A. Allan 75th Anniversary Lectureship in Science
John Polanyi, Professor of Chemistry,
the University of Toronto,
"How Discoveries are Made—and Why it Matters"

Monday, March 12, 4 p.m.
Lecture Theatre B-1 Henry Marshall Tory Building
University of Alberta

The lectures are free and the public is welcome to attend.

For more information contact Community Relations,
telephone 432-2325, 8:30 a.m. to 4:30 p.m., Monday to Friday

To Refurbish The Apartments
Friday, March 2, 1984
10:00 am-3:00 pm
8906 Stairwell
Hub Residence

*Newly Renovated Student Apartments
*Our Housing Staff Will Be Pleased To Show You All Of The Features Of Our Prototype Refurbishing Project
*Enjoy Some Refreshments
*Share Your Impressions With Us

Sale - Westend. Large, view lot. Immaculate home. Fully developed. Resi Richter, A.E. LePage, 483-9432, 455-4181.

Sale - Glenora. Three-storey home. Super lot. Resi Richter, A.E. LePage, 483-9432, 455-4181.

Rent - Three miles south, four-bedroom home. \$600 per month. 1 1/2 bathrooms, two-car garage. Phone, 435-3241.

Rent - Five-bedroom home. Millcreek, May-December, 1984. \$700/month. 432-2740, 433-4687.

For sale - Attractive home with southern exposure on ravine lot. Large living room and separate dining room, master suite, security system, close to downtown. \$269,000. Eleanor Duncan, 434-7368. Langley.

Sale - Spacious, open-beam bungalow. Three acres, Edmonton. Five bedrooms, 3 1/2 baths. Finished basement, heated garage. Family room with deck. Schools close. Mature landscaping. 25 min. to University. No agents. \$225,000. 988-5127.

Sale - University area. 1,550 sq. ft. bungalow. Bright living room. Large windows. Fieldstone fireplace. South backyard. Call Chris Tenove or Florence Thompson, 436-6833, 436-5250. Spencer's.

Sale - Old Riverbend bungalow, four bedrooms, 2 1/2 baths, two fireplaces. \$119,900. 437-1185.

Rent - (London, England). Large, two-bedroom apartment, fully furnished. \$900/month or exchange for accommodation near University. Available 1 April. 482-4310.

Rent - Completely furnished, family house, University area. 1 July-15 August. Two bedrooms, study, laundry facilities. Near major mall and bus route. 436-3535.

For sale - Southwest. Three-bedroom home with 1 1/2 baths, double garage, for \$89,000. Liz Crockford, Spencer's, 436-5250, 434-0555 (res.).

For sale - Riverbend bungalow. \$109,000. Three bedrooms plus developed basement. Newer, plush, beige broadloom. Double garage, nice backyard. Liz Crockford, Spencer's, 436-5250, 434-0555 (res.).

BOOKS WANTED

*Shelves overcrowded?
Do you have books you
no longer read?*

DON'T GIVE THEM AWAY!

**WE BUY
GOOD HARDCOVER
BOOKS**

*History, Literature,
Scholarly, Canadiana, etc.,
etc., etc.*

439-7133

**BJARNE'S BOOKS
10005 - 82 Avenue**

For sale - Saskatchewan Drive. Brick and cedar, 1,816 sq. ft. bungalow. Newer kitchen, fireplaces, double garage, beautiful lot with view of the river valley. Liz Crockford, Spencer's, 436-5250, 434-0555 (res.).

Sale - Owner. Walk to University. Two-bedroom, cedar condominium. Dishwasher, stove, fridge, washer, dryer, garbage. Ceramic tile, upgraded carpet, 1 1/2 baths, fireplace, patio, solarium windows, heated parking. \$86,000. 435-0085.

Sale - \$47,900. Spacious, two-bedroom condominium. Extensive grounds, large living room, close to University, 6815 112 St. 434-0229 after 6 p.m.

For rent - Two-bedroom house on 76 Ave. close to University. \$475 per month. Phone 426-4304.

Sale - Executive, split level. Revenue suite, three bedrooms, den, family room, fireplace, 3 1/2 bathrooms. Double, attached garage. 10806 68 Ave. Open house, Sunday, 4 March, 2-4 p.m.

Sale - Two-bedroom bungalow. McKernan. Basement suite. Large lot. After 6 p.m. or weekends. 436-9320.

Sale - North Glenora. Two-bedroom bungalow, 900 sq. ft. Five minutes to University. Four appliances, single garage. \$75,900. Jean Buxton, Javelin Real Estate, 482-6571.

Accommodations wanted

Accommodations wanted: 15 August-31 December 1984. Furnished house or apartment within walking distance to campus, by faculty couple. 432-0864.

Automobiles and others

Jeep Cherokee 1975. One owner. 65,000 miles, standard transmission. \$3,200. Days, 420-1640, ext. 281. After 6 p.m., 488-3595.

Goods for sale

Baby grand & upright pianos, king-size bed, family room furniture, dressers, freezer, fridge, card table, desk, moped, rugs. 487-1238 evenings.

Services

Donnic Word Processing. Specializing in theses, manuscripts, etc. 8315A-105 St. 432-1419.

Singing teacher, Eileen Turner, 439-4661. Backaches? Stress? Tension? Relief promised at Back Basics. Physiotherapist Maria Krieg uses heat, massages, chiro-gymnastics and interferential electrotherapy for special treatments. (Gift certificates). 11627-75 Ave. 436-8059.

Professional typist - Word processing. Specializing in theses and dissertations. Gwen, 467-9064.

Word processing - \$18/hour. Typing - from \$1.50/page. Greek symbols and equations. 432-0138.

Finishing carpenter available to do all types of renovation and woodwork. Phone Don, 479-8067.

Evans-Davies Contracting. Additions, renovations, sun decks, free estimates. 468-5780.

Canadian Tax returns, Eberlein Consulting. 434-0563.

Do your own typing on our word processors, \$5/hour. Letter quality (daisy wheel) printers. Limited training available (easy to learn). For information, call U of A Printing Services, 432-3754.

Expert tutoring available for high school/University students. Reasonable rates, flexible hours. 483-9308.

Bali Satay House. Fast food: Indonesian food, Thursday, Friday, Sunday. Malaysian food, Wednesday, Saturday. Vegetarian food, Monday, (Western style). Phone 438-3928. Riverbend Road-45 Ave.

Journeymen carpenter - renovations, cabinets, all general carpentry. Phone Noel, 456-3136.

Thesis typing - papers. Experienced. 455-0641.

L'Atelier. French tutorial: Small classes at various levels. Adults and children (weekdays). Semi-immersion (Saturdays). Contact Yves Puzo, 432-7565, Tuesdays and Thursdays, 3-6 p.m.

COLD SORES!!

Do you suffer from recurring cold sores? Would you like to participate in a CONFIDENTIAL, controlled study by a University research team investigating a promising anti-viral medication?

*For more information, call Sheri Samuels
at 432-2691*

THE UNIVERSITY OF ALBERTA ORCHESIS CREATIVE DANCE PRESENTS:

DANCE MOTIF '84

March 2, 3, 1984

8:00 p.m.

Student Union Theatre

tickets 5.00

**available from
Orchesis members
or the Sub ticket office
information 432-5601**

